

Module 5: Advanced Cell & Molecular Biology

Duration: 15 days

1. Media preparation
2. Aseptic conditions
3. Cells Freeze thawing
4. Cell counting
5. Cell plating
6. Media changing
7. Sub-culturing
8. Cell freezing and storage
9. Cell Harvesting
10. MTT-Assay
11. Cryo preservation
12. Wound healing assay
13. DNA damage by Agarose gel electrophoresis
14. Immunoprecipitation
15. Chip Assay
16. mRNA isolation
17. mRNA quantification
18. cDNA synthesis
19. qRT-PCR
20. Gene expression analysis
21. Western Blotting
22. Imaging and Quantification of data
23. Stable cell line preparation
24. Primary cells preparation
25. Plasmid Transfection
26. siRNA transfection